

Listing of Claims:

Claims 1-25 (Cancelled)

Claims 26-45 (Withdrawn)

Claims 46-50 (Cancelled)

Claim 51 (Previously added): A method for evaluating an effectiveness of a compound for use in modulating a disease, the method comprising:

- a) selecting a compound of interest;
- b) combining the compound with a system, wherein the system includes a known copy number of N-boxes;
- c) assaying the copy number of the N-boxes in the system after the combination; and
- d) determining whether the compound modifies the copy number.

Claim 52 (Previously added) The method of claim 51, wherein the system includes cells, and the N-boxes are foreign to the cells.

Claim 53 (Previously added): The method of claim 52, wherein the N-boxes are viral N-boxes.

Claim 54 (Previously added): The method of claims 51, wherein the assay identifies whether the compound modifies the copy number of active N-boxes.

Claim 55 (Previously added): The method of claims 51, wherein the assay identifies whether

the compound modifies the copy number of N-boxes bound by a transcription complex.

Claim 56 (Previously added): The methods of claims 51, wherein the disease is cancer.

Claim 57 (Previously added): The methods of claims 51, wherein the disease is atherosclerosis.

Claim 58 (Previously added): The methods of claims 51, wherein the disease is osteoarthritis.

Claim 59 (Previously added): The methods of claims 51, wherein the disease is obesity.

Claim 60 (Previously added): A method for evaluating the ability of a compound to affect gene expression, the method comprising the steps of:

- a) selecting a compound of interest;
- b) combining the compound with a system, wherein the system includes a known copy number of N-boxes;
- c) assaying the copy number of the N-boxes in the system after the combination; and
- d) determining whether the compound modifies the copy number.

Claim 61 (Previously added): The method of claim 60, wherein the system includes cells, and

the N-boxes are foreign to the cells.

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conclude
Claim 63 (Previously added): The method of claim 61, wherein the N-boxes are viral N-boxes.

Claim 63 (Previously added): The methods of claims 60, wherein the assay identifies whether the compound modifies the copy number of active N-boxes in the system.

Claim 64 (Previously added): The methods of claims 60, wherein the assay identifies whether the compound modifies the copy number of N-boxes bound by a transcription complex.